# **AYŞENUR PAMUKÇU Education**



### **Contact**

#### Address:

Izmir Katip Celebi University, Central Research Laboratories, Cigli, Izmir.

#### **Email:**

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# Languages

Turkish – Native

English – C2

Spanish - A2

# **Computer Skills**

Microsoft Office – Advanced R – Intermediate Matlab – Elementary

## **Awards and Honors**

Top Student of the Bioengineering Department in 2018, 3.68.

#### 2018-Ongoing, MSc in Biomedical Technologies

Izmir Katip Celebi University, Izmir, Turkey.

### 2014-2018, BSc in Bioengineering

Manisa Celal Bayar University, Manisa, Turkey.

#### 2013-2014

The School of Foreign Languages, Manisa Celal Bayar University, Turkey.

# **Experiences**

#### 09/2018 - Ongoing, MSc Student

Nanomedicine and Biomaterials Laboratory, Izmir Katip Celebi University, Izmir, Turkey.

### 04/2017 - 06/2018, Undergraduate Student

Vaccine and Drug Development Research Laboratory, Manisa Celal Bayar University, Manisa, Turkey.

#### 15/08/2016 - 09/09/2016, Summer Intern

Microbiology Research and Genetics Laboratory, Ege University, İzmir, Turkey.

### 11/07/2016 - 05/08/2016, Summer Intern

Genmar Diagnostic Products-R&D Company, İzmir, Turkey.

### **Research Interests**

**Nanomedicine** – Development of nanoparticles for use in medical applications.

**Tissue Engineering** – Fabrication of scaffolds and functionalization via nanoparticles.

**Drug/Gene Delivery –** Nanoparticle-mediated drug/gene delivery systems.

**Microfluidics** – Drug and single cell screening via microfluidic platforms.

Biopharmaceuticals - Design and production of biological drugs.

### **Skills**

Solid state peptide synthesis

Sol-gel nanoparticle synthesis, functionalization and characterization Electrospinning

Cell culture

SDS-PAGE Electrophoresis

Western Blot

# **Projects**

- **1.** 2019-Ongoing, Researcher, IKCU-BAP, "Preparation of Novel Scaffold Systems Reinforced with Mesoporous Silica Nanoparticles for BMP-2 Delivery and *in vitro* Investigations".
- **2.** 2018-Ongoing, Scholarship holder, IKCU-BAP, "Design of MSN-guided 3D Bioactive Scaffolds for Tissue Engineering".
- **3.** 2017-2018, Scholarship holder, Tübitak 3001, "siRNA Transfection and GFP Silencing using pHEMA-Chitosan Composite Nanospheres".
- **4.** 2017-2018, Undergraduate student, MCBU-BAP, "Development of Efficient Drug Delivery Vehicles Against Prostate Cancer Cells by Using pHEMA-Chitosan Composite Nanospheres".
- **5.** 2017-2018, Undergraduate student, MCBU-BAP, "Development of Home Made Polysulfone Membranes to Use in Immunoblot Technique".

### **Publications**

- **1. Pamukcu, A.,** Kaba, F., Sen Karaman, D. Tuning the Tensile Strength of Electrospun Fibers by Mesoporous Silica Nanoparticle Integration for Tissue Engineering Applications. 2019, IEEE Xplore, in press.
- **2. Pamukcu, A.,** Portakal, H.S., Eroglu, E. New Generation Biomaterials Used in Delivery of Therapeutic Molecules. 2018, Erzincan University Journal of Science and Technology, 11(3), 524-542.

## **Proceedings**

- **1. Pamukcu, A.,** Kaba, F., Sen Karaman, D. Tuning the Tensile Strength of Electrospun Fibers by Mesoporous Silica Nanoparticle Integration for Tissue Engineering Applications. TIPTEKNO'19 Medical Technologies Congress, Izmir, October 2019.
- **2.** Durna, G., Celebi, K., Bakay, E., **Pamukcu, A.,** Topaloglu Avsar, N., Sen Karaman, D. "Combinatory Antimictobial Photodynamic Threaphy with Silica Nanoparticles", 4th GTU Photodynamic Day, Gebze, Kocaeli, April 2019.
- **3.** Eroglu, E., **Pamukcu, A.,** Portakal, H.S. "Terapötik Molekül Aktarımında Nano-Taşıyıcılar: Resveratrol Yüklenmiş pHEMA-Chitosan Nanoparçacıklarının Sentezi, Karakterizasyonu ve in vitro Antikanser Aktivitesi." 13. Ulusal Kimya Mühendisliği Kongresi, Van, 2018.
- **4.** Portakal, H.S., **Pamukcu, A.,** Eroglu, E. "A Novel Approach to Gene Therapy: Synthesis and Characterization of pHEMA-Chitosan Nanospheres Loaded with siRNA." 14th Nanoscience and Nanotechnology Conference, Izmir, 2018
- **5. Pamukcu, A.,** Portakal, H.S., Eroglu, E. "Synthesis and Characterization of pHEMA Chitosan Nanospheres Encapsulated with an Anticancer Agent, Resveratrol." I. International University Industry Cooperation, R&D and Innovation Congress, Manisa, 2017.